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## Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

## **Listing of Claims**:

1. (Previously presented) A method of making a cathode for a primary lithium battery comprising:

pulling an expanded metal grid including aluminum and having an initial tensile strength, the expanded metal grid having a long dimension and a short dimension and having an array of diamond-shaped openings, the pulling increasing the short dimension and increasing the tensile strength to greater than 5 lb/in; and

coating the expanded metal grid with a composition including a cathode active material.

- 2. (Original) The method of claim 1, wherein the composition is a slurry.
- 3. (Original) The method of claim 1, wherein the cathode active material includes a manganese dioxide, a  $CF_x$ , iron disulfide, or a vanadate.
  - 4. (Original) The method of claim 1, wherein the composition includes a carbon source.
- 5. (Original) The method of claim 4, wherein the carbon source includes a carbon fiber, a graphite, an acetylenic carbon, or a combination thereof.
  - 6. (Original) The method of claim 1, wherein the composition includes a binder.
  - 7. (Original) The method of claim 6, wherein the binder includes an organic polymer.

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8. (Original) The method of claim 1, wherein the grid includes a 1000 series aluminum, a 2000 series aluminum alloy, a 3000 series aluminum alloy, a 5000 series aluminum alloy, a 6000 series aluminum alloy, or a 7000 series aluminum alloy.

- 9. (Original) The method of claim 1, wherein the grid includes a 6000 series aluminum alloy.
- 10. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including 0-0.4% by weight of chromium.
- 11. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including 0.01-6.8% by weight of copper.
- 12. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including 0.05-1.3% by weight of iron.
- 13. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including 0.1-7% by weight of magnesium.
- 14. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including 0-2% by weight of manganese.
- 15. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including 0-2% by weight of silicon.
- 16. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including less than 0.25% by weight of titanium.
- 17. (Previously presented) The method of claim 1, wherein the grid includes an aluminum alloy including 0-8.2% by weight of zinc.

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18. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including 0-2.3% by weight of nickel.

- 19. (Original) The method of claim 1, wherein the grid has a resistivity of less than 100 m $\Omega$ /cm.
- 20. (Original) The method of claim 1, wherein the grid has a resistivity of less than 10 m $\Omega$ /cm.
  - 21. (Cancelled)
- 22. (Previously presented) The method of claim 1, further comprising leveling the grid before coating by passing the grid between rollers.
  - 23. (Original) The method of claim 1, further comprising drying the grid after coating.
- 24. (Original) The method of claim 23, further comprising calendering the grid after drying.
- 25. (Previously presented) The method of claim 24, wherein calendering includes passing the grid through a gap having a thickness of less than 25 mils.
  - 26. (Cancelled)
- 27. (Original) The method of claim 26, further comprising heat treating the grid after calendering.

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28. (Original) The method of claim 27, further comprising drying the grid under vacuum after heat treating.

- 29. (Original) The method of claim 9, wherein the composition is a slurry.
- 30. (Original) The method of claim 9, wherein the cathode active material includes a manganese dioxide, a  $CF_x$ , iron disulfide, or a vanadate.
- 31. (Original) The method of claim 9, wherein the composition includes a carbon source.
- 32. (Original) The method of claim 31, wherein the carbon source includes a carbon fiber, a graphite, an acetylenic carbon, or a combination thereof.
  - 33. (Original) The method of claim 9, wherein the composition includes a binder.
  - 34. (Original) The method of claim 31, wherein the binder includes an organic polymer.
  - 35. (Cancelled)
- 36. (Currently amended) The method of claim 9, further comprising leveling the grid before coating by passing the grid between rollers.
  - 37. (Original) The method of claim 9, further comprising drying the grid after coating.
- 38. (Original) The method of claim 37, further comprising calendering the grid after drying.
- 39. (Previously presented) The method of claim 38, wherein calendering includes passing the grid through a gap having a thickness of less than 25 mils.

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## 40. (Cancelled)

41. (Previously presented) A method of making a cathode for a battery comprising: pulling an expanded metal grid including aluminum and having an initial tensile strength, the expanded metal grid having a long dimension and a short dimension and having an array of diamond-shaped openings, the pulling increasing the short dimension and increasing the tensile strength to greater than 5 lb/in;

coating the expanded metal grid with a composition including a carbon source, a binder, and a cathode active material, wherein the cathode active material includes a manganese dioxide; calendering the grid after coating; and heat treating the grid after calendering.

- 42. (Original) The method of claim 41, wherein calendering includes passing the grid through a gap.
- 43. (Original) The method of claim 42, wherein the gap has a thickness of less than 25 mils.
- 44. (Original) The method of claim 43, further comprising drying the grid after coating and before calendering.
- 45. (Original) The method of claim 41, further comprising sizing the grid after calendering.
- 46. (Original) The method of claim 41, further comprising edge-cleaning the grid after calendering.
- 47. (Original) The method of claim 41, further comprising drying the grid under vacuum after heat treating.

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48. (Original) The method of claim 41, wherein the aluminum alloy is a 2000 series aluminum alloy, a 3000 series aluminum alloy, a 5000 series aluminum alloy, or a 7000 series aluminum alloy.

- 49. (Original) The method of claim 41, wherein the aluminum alloy is a 6000 series aluminum alloy.
- 50. (Original) The method of claim 41, wherein the aluminum alloy including 0-0.4% by weight of chromium, 0.01-6.8% by weight of copper, 0.05-1.3% by weight of iron, 0.1-7% by weight of magnesium, 0-2% by weight of manganese, 0-2% by weight of silicon, less than 0.25% by weight of titanium, 0-2.3% by weight of nickel, and 0-8.2% by weight of zinc.
  - 51. (Cancelled)
  - 52. (Original) The method of claim 41, wherein the binder includes an organic polymer.
- 53. (Original) The method of claim 52, wherein the binder includes poly(tetrafluoroethylene), poly(vinylalcohol), or a combination thereof.
- 54. (Original) The method of claim 41, wherein the carbon source includes a carbon fiber, a graphite, an acetylenic carbon, or a combination thereof.
- 55. (Original) The method of claim 41, wherein the grid has a resistivity of less than 100 m $\Omega$ /cm.
- 56. (Original) The method of claim 41, wherein the grid has a resistivity of less than 10 m $\Omega$ /cm.
  - 57. (Previously presented) A method of making a cathode for a battery comprising:

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pulling an expanded metal grid including aluminum and an initial tensile strength, the expanded metal grid having a long dimension and a short dimension and having an array of diamond-shaped openings, the pulling increasing the short dimension and increasing the tensile strength to greater than 5 lb/in;

coating the expanded metal grid with a composition including a carbon source, a binder, and a cathode active material, wherein the cathode active material includes a manganese dioxide;

drying the grid after coating;

calendering the grid to a thickness of less than 20 mils after drying;

sizing the grid after calendering;

edge-cleaning the grid after sizing;

heat treating the grid after edge-cleaning; and

drying the grid under vacuum after heat treating the grid.

- 58. (Previously presented) The method of claim 1, wherein the long dimension and the short dimension have a ratio of from about 51:100 to about 72:80.
- 59. (Previously presented) The method of claim 1, wherein the coating expanded metal grid comprises immersing the metal grid in the composition including the cathode active material.
- 60. (Previously presented) The method of claim 1, further comprising removing an excess composition by passing the coated metal grid between blades held at a fixed gap.